

Attachment 6: Program Preferences

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The purpose of this attachment is to describe how implementation of the projects included in this Proposal will meet specific Program Preferences, as referenced in Section II.F of the *2015 IRWM Guidelines*. The three projects presented herein help improve water supply reliability, drought preparedness and directly address DAC water needs. As discussed in more detail in Attachment 7 – Disadvantaged Community Assistance, the implementation of the projects will address water supply reliability and water quality within DACs in the MAC Region.

The three projects included in this proposal address the **Human Right to Water Policy**. Creating a new water supply for AWA and improving the existing treatment process through the implementation of the Sheep Ranch Drinking Water Compliance Project will contribute to the Human Right to Water Policy by delivering clean, affordable, and accessible water for human consumption, cooking, and sanitary purposes to the customers in the DAC of Sheep Ranch. The Sheep Ranch Drinking Water Compliance Project will replace its existing, non-compliance surface water treatment equipment that is currently unreliable during times when the raw water supply's turbidity is too high with compliant equipment that will eliminate plant shutdowns. This will greatly increase Sheep Ranch water reliability given that the water treatment plant provides the area's sole source of water supply. The Lake Camanche Service Lateral – Phase 3 Project also contributes to the Policy by leaking service laterals in the Lake Camanche area. The service laterals have significant water loss leakage, and water quality concerns because contaminants may enter customers' water supply through the leaks. Finally, the MAC Region Water Conservation Program has a component that will target disadvantaged households to assist them to implement water use efficiency both indoors and outdoors. This will help to reduce household water bills, allowing for more affordable water supplies.

Lake Camanche Service Lateral Replacement – Phase 3

The Lake Camanche Service Lateral Replacement – Phase 3 project will contribute to 4 Program Preferences and 6 Statewide Priorities as shown in the following table.

Program Preference	Level of Certainty	Breadth / Magnitude	Description
Include regional projects or programs	High	Local	Meets definition of Regional Project included in Appendix B of the 2015 Guidelines as it improves operational efficiency and water supply reliability

Effectively integrate water management programs or projects within a hydrologic region	High	Local	Integrates water management programs (RMS) identified in the 2009 CWP including: Conveyance – Regional / Local and Drinking Water Treatment and Distribution
Address critical water supply or water quality needs of DACs within the region	High	Local	Improves water supply reliability and water quality to the DAC of Lake Camanche. Contributes to Human Right to Water Policy for current Lake Camanche water users.
Address Statewide Priorities	High	Local, Regional	See below
<i>Drought preparedness</i>	High	Local	Promotes water conservation and reduces water loss through leaking service laterals
<i>Use and reuse water more efficiently</i>	High	Local	Increases water use efficiency by replacing leaking service laterals, reducing water loss through leakage.
<i>Climate change response actions</i>	High	Local, Regional	Addresses adaptation to climate change effects by using water more efficiently and reducing water loss.
<i>Expand environmental stewardship</i>	Medium	Local, Regional	Reduces chlorinated water loss, reducing chlorine loading to the environment.
<i>Protect surface water and groundwater quality</i>	High	Local	Improves water quality by reducing chlorinated water loss from service lateral leakage, protecting local surface and groundwater from chlorine loading.
<i>Ensure equitable distribution of benefits</i>	High	Local	Improves water supply reliability to the Lake Camanche DAC.

Sheep Ranch Drinking Water Compliance Project

The Sheep Ranch Drinking Water Compliance Project will contribute to 4 Program Preferences and 3 Statewide Priorities as shown in the following table.

Program Preference	Level of Certainty	Breadth / Magnitude	Description
Include regional projects or programs	High	Local	Meets definition of Regional Project included in Appendix B of the Drought Guidelines as it improves water supply reliability and increases water supplies, and improves water quality.
Effectively integrate water management programs	High	Local	Integrates water management programs (RMS) identified in the 2009 CWP including Drinking Water Treatment and Distribution.
Address critical water supply or water quality needs of DACs within a region	High	Local	Improves water supply reliability and water quality to the DAC of Sheep Ranch. Contributes to Human Right to Water Policy for current Sheep Ranch water users.
Address Statewide Priorities	High	Local, Regional	See below
<i>Drought preparedness</i>	High	Local	Improves reliability of drinking water supply, which will improve water supply reliability to users.
<i>Climate change response actions</i>	High	Local, Regional	Helps the MAC Region adapt to climate change by providing more reliable local supplies.
<i>Ensure equitable distribution of benefits</i>	High	Local	Improves water supply reliability and quality to the Sheep Ranch DAC.

MAC Region Water Conservation Program

The MAC Region Water Conservation Program will contribute to 4 Program Preferences and 5 Statewide Priorities as shown in the following table.

Program Preference	Level of Certainty	Breadth / Magnitude	Description
Include regional projects or programs	High	Local, Regional	Meets definition of Regional Project included in Appendix B of the 2015 Guidelines as it reduces water demand through urban water use efficiency
Effectively integrate water management programs or projects within a hydrologic region	High	Local, Regional	Integrates water management programs (RMS) identified in the 2009 CWP including: Urban Water Use Efficiency.
Address critical water supply or water quality needs of DACs within the region	High	Local, Regional	Reduces water demand and therefore increases water supply reliability to DACs throughout the Region. Contributes to Human Right to Water Policy DACs in the Region.
Address Statewide Priorities	High	Local, Regional	See below
<i>Drought preparedness</i>	High	Local, Regional	Promotes water conservation which improves drought preparedness.
<i>Use and reuse water more efficiently</i>	High	Local, Regional	Increases water use efficiency by implementing a number of urban water use efficiency measures.
<i>Climate change response actions</i>	High	Local, Regional	Addresses adaptation to climate change effects by using water more efficiently and reducing water loss.
<i>Protect surface water and groundwater quality</i>	High	Local, Regional	Improves surface water quality by reducing runoff from landscape over-irrigation and associated nutrient loadings.
<i>Ensure equitable distribution of benefits</i>	High	Local, Regional	Improves water supply reliability to DACs throughout the Region.